



*Transmitted Electronically*

December 20, 2011

Mr. Steve Renninger  
On-Scene Coordinator  
U.S. Environmental Protection Agency  
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Cincinnati, OH 45268


**Subject:        Site Assessment Report, Revision 0**  
**Superior Cleaning Solutions Site (Keowee Street Drum Site)**  
**EPA Contract No.: EP-S5-10-10**  
**Technical Direction Document (TDD) No.: TO-05-11-06-0016**

Dear Mr. Renninger:

Oneida Total Integrated Enterprises (OTIE) Superfund Technical Assessment and Response Team (START) is submitting one copy of the final Site Assessment (SA) Report, Revision 0 for the Superior Cleaning Solutions site located in Dayton, Montgomery County, Ohio.

Please contact me at (678) 255-7764 if you any questions or comments regarding this report.

Sincerely,



Stacey DeLaReintre  
START Project Manager

Enclosure

cc:        Raghu Nagam, START Program Manager (w/o enclosure)  
            START File

# **SITE ASSESSMENT REPORT**

**Superior Cleaning Solutions Site  
(Keowee Street Drum Site)  
Dayton, Montgomery County, Ohio**

**Revision 0**

**Prepared for:**

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
Region 5  
77 West Jackson Blvd.  
Chicago, IL 60604**

**Prepared by:**

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Contract No.	:	EP-S5-10-10
TDD Number	:	TO-05-11-06-0016
Date Submitted	:	December 20, 2011
EPA OSC	:	Steve Renninger
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## **1.0 INTRODUCTION**

The U.S. Environmental Protection Agency (EPA) tasked the Oneida Total Integrated Enterprises (OTIE) Superfund Technical Assessment and Response Team (START) to perform a Site Assessment (SA) at the Superior Cleaning Solutions site (site) (aka Keowee Street Drum site), located in Dayton, Montgomery County, Ohio, under Contract Number (No.) EP-S5-10-10, Technical Directive Document (TDD) No. TO-05-11-06-0016. The general purpose of a SA is to collect information on current site conditions, to identify the nature and extent of contamination, and determine the need for federal intervention under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986.

Under this TDD, START completed the following tasks:

- developed a site-specific Sampling and Analysis Plan (SAP), that included detailed site-specific sampling and analysis procedures and quality assurance measures to be adhered to while conducting a comprehensive investigation. The SAP was designed to determine if hazardous, corrosive or flammable chemicals exist at the site;
- developed a Health and Safety Plan (HASP) that included site-specific health and safety measures for conducting the SA field investigation designed to determine if hazardous, corrosive or flammable chemicals exist at the site; and,
- performed field investigation activities, including field screening and multimedia sampling as outlined in the SAP; and,
- documented site conditions and SA field investigation activities with written logbook notes and digital photographs.

This comprehensive SA report summarizes the existing conditions at the site; describes the field investigation activities; and summarizes the hazardous chemicals present at the site. The SA report provides information to assess immediate risks to human health and the environment. Environmental and quality assurance/quality control (QA/QC) analytical data was evaluated and summary data tables are included as Appendix B. Significant QA/QC issues regarding sample collection, handling, and analysis are identified as necessary within the report.

The following sections provide the details of this SA:

- Section 2 – Describes the site background
- Section 3 – Describes the SA activities
- Section 4 – Describes the SA results
- Section 5 – Describes the potential site related threats
- Section 6 – Describes the summary and conclusion

Figures and summary data tables, are provided as Appendices A and B, respectively. A photographic log is provided as Appendix C and the data validation memo and analytical data report is provided as Appendix D. Logbook notes are provided as Appendix E.

## **2.0 SITE BACKGROUND**

This section describes the site characteristics and site history.

### **2.1 SITE DESCRIPTION**

The Superior Cleaning Solutions Drum Site is a commercial property located at 1224 North Keowee Street in Dayton, Ohio (see Figure 1). The geographical coordinates for the site are latitude 39° 46' 50.2" North and longitude 84° 11' 12.9" West. The site is abandoned and was historically used as a commercial chemical distribution and processing building. The previous occupant of the site was a chemical company called Chemical Management Company. The site is bordered to the north by a used car dealer, Deals for Wheels; to the east by residential properties; to the south by a commercial property, Boeckman Meets; and to the west by Keowee Street and a vacant lot which formerly consisted of public housing (see Figure 2).

There is a wood gate at the rear of the property that encloses unsecured 55 gallon drums along the south side of the site building. Also there is an overgrowth of trees and brush behind the building. Drums containing sodium hydroxide and xylene chemicals and several unknown chemical drums are located inside and outside the building.

### **2.2 SITE HISTORY**

The Chemical Management Company (CMC) operated at the site most recently and sold industrial cleaning supplies. CMC specialized in chemical needs for restaurants, nursing homes, and hospitality industry. The situation at CMC was brought to the McCook Field Neighborhood Association's attention by a neighbor's complaint of tree and brush issues. On June 20, 2011 the president of the McCook Field Neighborhood Association requested Ohio EPA (OEPA) and the City of Dayton to perform an investigation. The Dayton Fire Department conducted an investigation of the site on June 21, 2011 and reviewed records and chemical information. On June 22, 2011, OEPA investigated the site and secured it until the formation of a follow-up strategy. Flammable and corrosive chemicals were found in excess of

the Dayton Fire Code Exempt storage amounts. The Dayton Fire Department referred the site to U.S. EPA Region 5 Superfund Division to conduct a removal assessment and abate any environmental and human health threats resulting from abandoned chemicals at the Site.

### **3.0 SITE ASSESSMENT ACTIVITIES**

START performed site assessment activities, including the collection of environmental samples to determine if hazardous, corrosive or flammable chemicals exist at the site. A SAP was developed for the SA prior to fieldwork and submitted under a separate cover. The SAP describes the data quality objectives (DQO), sampling strategy, sampling methodology, and analytical procedures used during the SA. The SA was conducted on August 3, 2011. Data obtained from this SA provides information needed to determine if hazardous chemicals exist at the site and the need for federal intervention under CERCLA.

This section summarizes field investigation activities including site reconnaissance (subsection 3.1), site assessment activities (subsection 3.2), sample collection (subsection 3.3), sample analysis (subsection 3.4), and data validation (subsection 3.5). Table 1 in Appendix B presents a summary of all of the samples collected and their associated location. Photographic documentation is provided as Appendix C.

#### **3.1 SITE RECONNAISSANCE**

On August 2, 2011, a site reconnaissance was performed in preparation for site assessment activities the following day. START and EPA conducted a walk-through of the building as well as the immediate areas outside the building. Abandoned drums were located outside of the building along the south wall, in a fenced area, overgrown with trees and weeds. The closest residence is about 50 feet from the site. The interior building consisted of a small office space and a chemical storage area. The chemical storage area served as the chemical storage and mixing area with garage doors located at the front and the back of the building. There were many drums, totes, and small containers abandoned on site in the chemical storage area and the building exterior (see Figure 3).

#### **3.2 SITE ASSESSMENT SAMPLING ACTIVITIES**

On August 3, 2011 START conducted site assessment sampling activities at the site. START documented approximately 160 55-gallon drums, 10 totes, and 200 small containers (35-gallons or less) abandoned at the site. Many of the drums and containers contained labels such as “Flammable Liquid”,

“Corrosive”, “Hydrochloric Acid”, “Xylene”, and “Caustic Soda.” Numerous drums were in poor condition and leaking. A white solid was observed on the floor in numerous locations around the facility.

Liquid samples were collected from the abandoned drums located on-site and submitted to an analytical laboratory for pH and flashpoint determination and volatile organic compounds (VOC) analysis.

### **3.3 SAMPLE COLLECTION**

A total of 16 liquid drum samples, excluding QC samples, were collected during the SA investigation. Liquid drum samples were submitted to an EPA-approved private laboratory for analysis of pH in accordance with EPA Method E 150.1 and flashpoint in accordance with EPA SW-846 Method 1010. One drum sample was also analyzed for total VOCs in accordance with EPA SW-846 Method 8260B.

EPA and START identified 25 drums for field screening and pH testing. START field tested 25 drums for pH using pH indicator strips. The pH testing indicated that many of the materials met the Resource Conservation and Recovery Act (RCRA) criteria for characteristic hazardous waste for corrosivity. A table indicating field screening pH measurements is included as Table 2. From the 25 drums field tested for pH, 10 drums were selected for laboratory determination of pH; 8 drums were located inside the building and two were located outside. START collected liquid drum samples using dedicated glass drum thieves from drums SCS-002, SCS-006, SCS-007, SCS-009, SCS-010, SCS-012, SCS-013, SCS-020, SCS-021, and SCS-022 for pH determination. The liquid sample was decanted directly into lab-supplied glass sample containers. Sample containers were labeled and placed on ice for shipment to the laboratory. A duplicate sample was collected from SCS-020 drum for quality control purposes. Samples that were collected at the site are summarized in Table 1 provided in Appendix B.

There was one deviation from the SAP. The SAP called for a RAE Systems MultiRAE® five-gas monitor use for field screening of the vapor head-space of drums prior to sampling. The MultiRae was malfunctioning during SA activities and was not used to field screen the drums. Six drums were identified for flashpoint determination based on label information and container type. START collected liquid drum samples using dedicated glass drum thieves from drums SCS-003, SCS-004, SCS-005, SCS-015, SCS-024, and SCS-025 for flashpoint determination. The liquid was decanted directly into lab-supplied glass sample containers. Sample containers were labeled and placed on ice for laboratory determination of flashpoint. One drum sample, SCS-003, was also selected for total VOC analysis; drum



markings indicated the drum contained “Xylene.” A duplicate sample was collected from drum SCS-005 for quality control purposes. Figure 4 located in Appendix A shows the drum sample locations.

### **3.4 SAMPLE ANALYSES**

Samples for laboratory analyses were submitted to STAT Analysis Corporation (STAT) of Chicago, IL. Drum samples were analyzed by STAT for pH determination in accordance with EPA Method E150.1 and flashpoint determination in accordance with EPA SW-846 Method 1010. One drum sample was also analyzed for total VOCs in accordance with EPA SW-846 Method 8260B.

### **3.5 DATA VALIDATION**

The data was validated by START in general accordance with the USEPA “Contract Laboratory Program National Functional Guidelines for Organic Data Review” dated October 1999. Organic data validation consisted of a review of the following quality control (QC) parameters: holding times, instrument performance checks, initial and continuing calibrations, blank results, surrogate recovery results, matrix spike and matrix spike duplicate (MS/MSD) results, laboratory control sample (LCS) results, internal standard response, and target compound identification and quantitation.

Overall, the sample analytical data generated by STAT are acceptable for use as qualified. A copy of the START Data Validation Memoranda is included in Appendix D.

## **4.0 ANALYTICAL RESULTS**

The following section summarizes laboratory analytical results for samples collected during the Site Assessment field activities. For purposes of evaluating sample results, drum samples were compared to the Code of Federal Regulations (CFR) sections which verify the characteristics of a hazardous waste for ignitability, corrosivity, and toxicity. Table 3 summarizes all detected analytical results for drum samples.

The pH results for samples collected from the drums and containers indicated a pH of less than 2.0 standard units (SU) in five of the 12 samples analyzed for pH (Samples SCS-002, SCS-006, SCS-012, SCS-020, and SCS-022). The analytical results also indicated a pH of greater than 12.4 SU in three of the 12 samples analyzed for pH (Samples SCS-010, SCS-013, and SCS-021). All eight results, according to 40 CFR § 261.22 meet the characteristic of a hazardous waste for corrosivity.

Analytical results from samples SCS-003, SCS-004, SCS-015, SCS-024, and SCS-025 documented liquid having flash points less than 140 degrees Fahrenheit (°F), which, according to 40 CFR § 261.21, meets the characteristic of a hazardous waste for ignitability.

Analytical results from sample SCS-003 indicated xylene at concentration of 700,000 milligrams per liter (mg/L) and ethylbenzene at 180,000 mg/L. Sample results are shown in Table 3.

## **5.0 POTENTIAL SITE RELATED THREATS**

Threats posed by the site were evaluated in accordance with Title 40 CFR, Section 300.415(b) (2).

Paragraph (b) (2) of 40 CFR Section 300.415 lists the factors to be considered when determining the appropriateness of a potential removal action at a site. Potential site-related threats to human health and the environment were evaluated based on the criteria listed in 40 CFR, Sections 261.20 through 261.24. Factors that are applicable to the Site are discussed below.

### **Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances or pollutants or contaminants.**

Analytical results from samples SCS-003, SCS-004, SCS-015, SCS-024, and SCS-025 documented liquid having flash points less than 140°F, which, according to 40 C.F.R. § 261.21, verifies the characteristic of a hazardous waste for ignitability (D001).

Analytical results from liquid samples SCS-002, SCS-006, SCS-012, SCS-020 and SCS-022 indicate pH levels less than 2.0 standard units, and analytical results from liquid samples SCS-010, SCS-013 and SCS-021 indicate pH level greater than 12.5 standard units. The sample SCS-022 was collected from a drum located outside the building. All eight results, according to 40 C.F.R. § 261.22, verify the characteristic of a hazardous waste for corrosivity (D002).

The presence of confirmed hazardous material poses a threat to current and nearby residents and to trespassers through direct exposure. Human or ecological contact with these drums can result in exposure to corrosive, ignitable, and toxic materials, including xylene.

Xylene is a colorless, sweet smelling liquid that catches on fire easily. Xylene is used as a solvent and in the printing, rubber, and leather industries. It is also used as a cleaning agent, a thinner for paint, and in paints and varnishes. Xylene can be absorbed through the respiratory tract and through the skin. Exposure of people to high levels of xylene for short periods can cause irritation of the skin, eyes, nose,

and throat, difficulty in breathing, problems with the lungs, delayed reaction time, and stomach discomfort. It can cause unconsciousness and even death at very high levels.

**Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers that may pose a threat of release.**

During the site investigation, EPA and START observed and documented the presence of approximately 160 55-gallon drums, 10 totes, and 200 small containers (35-gallons or less). Many of drums and containers contained labels such as “Flammable Liquid”, “Corrosive”, “Hydrochloric Acid”, “Xylene”, and “Caustic Soda.” Numerous drums were in poor condition and leaking.

EPA samples confirmed the presence of ignitable, corrosive, and toxic (xylene) hazardous waste at the site. Drum contents were observed spilled onto the floor and adjacent floor drain area. Numerous drums and containers were uncovered and deteriorating, with visible waste spilled onto the floor in various areas on-site. Continued deterioration of the containers on site may allow additional quantities of hazardous substances to migrate into the environment.

**Threat of fire or explosion.**

Analytical results from the EPA Site Assessment documented that material in drums and containers were flammable liquids and pose a threat of fire or explosion. This site assessment documented five liquid samples having flashpoint results below 140 °F, which is the criterion for ignitability for a RCRA characteristic waste. The abandoned site conditions with ignitable liquid poses a threat of fire or explosion.

## **6.0 SUMMARY AND CONCLUSIONS**

The Superior Cleaning Solutions Site is an abandoned commercial property located at 1224 North Keowee Street in Dayton, Ohio. The site was historically used as a commercial chemical distribution and processing building. The previous occupant was a chemical company called Chemical Management Company. Drums containing sodium hydroxide and xylene chemicals and several unknown chemical drums are located inside the building as well as on the south side of the building. On June 22, 2011, OEPA investigated the site and found flammable and corrosive chemicals in excess of the Dayton Fire Code Exempt amounts. The Dayton Fire Department referred the site to EPA Region 5 Superfund Division to conduct a removal assessment and abate any environmental and human health threats resulting from abandoned chemicals at the site.

On August 3, 2011 START conducted a site assessment at the site to confirm the presence of corrosive, ignitable and toxic hazardous waste at the site. START documented approximately 160 55-gallon drums, 10 totes, and 200 small containers (35-gallons or less) abandoned at the site. Many of the drums and containers contained labels such as “Flammable Liquid”, “Corrosive”, “Hydrochloric Acid”, “Xylene”, and “Caustic Soda.” Numerous drums were in poor condition and leaking. A white solid was spilled on the floor in numerous locations around the facility.

A total of 16 liquid drum samples, excluding QC samples, were collected during the SA investigation. Liquid drum samples were submitted to an EPA-approved private laboratory pH determination in accordance with EPA Method E150.1 and flashpoint determination in accordance with EPA SW-846 Method 1010. One drum sample was also analyzed for total VOCs in accordance with EPA SW-846 Method 8260B.

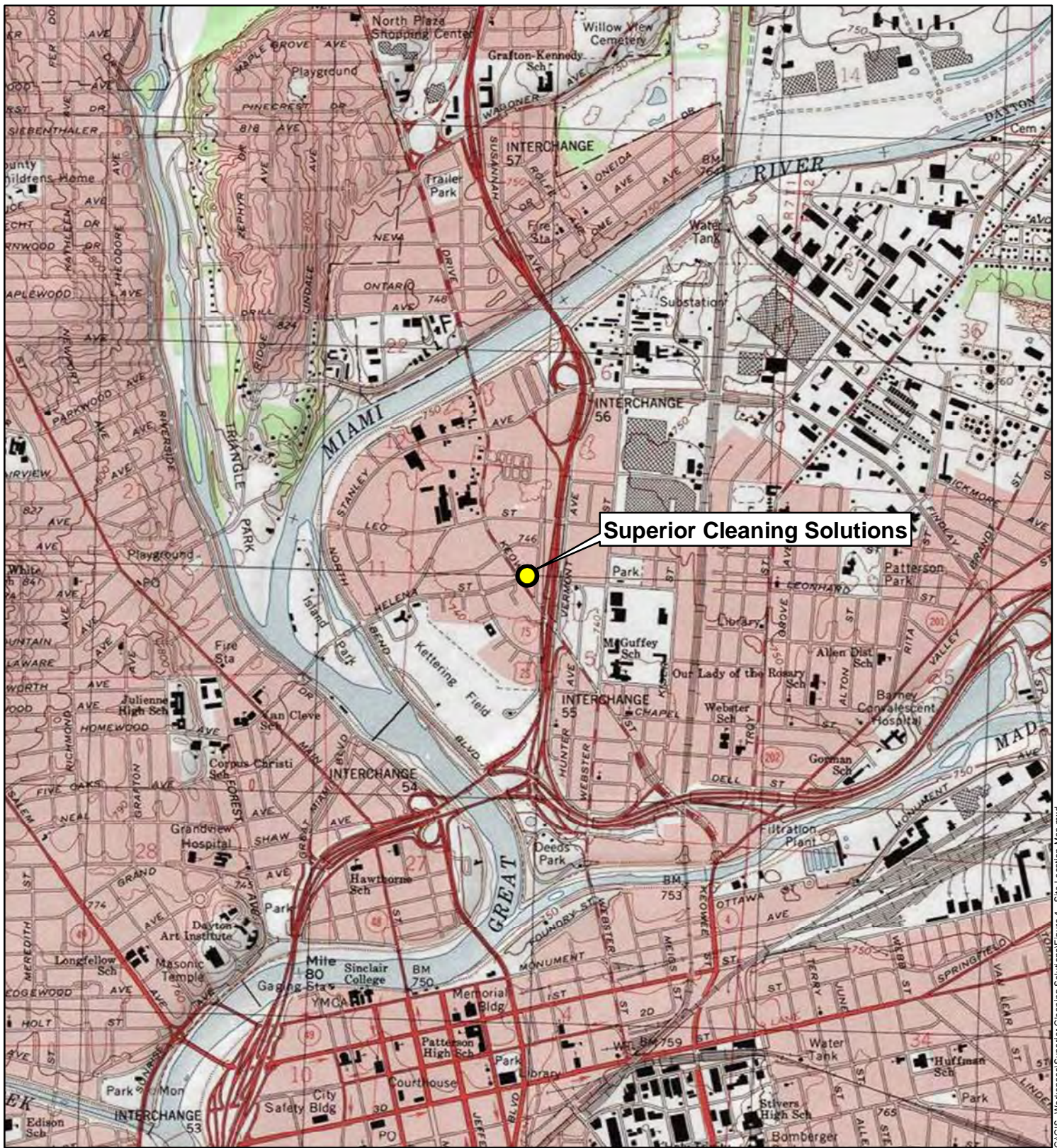
The pH results for samples collected from the drums and containers indicated a pH of less than 2.0 SU in five of the samples; and a pH of greater than 12.4 SU in three of the samples. All eight results according to 40 CFR § 261.22, verify the characteristic of a hazardous waste for corrosivity. Analytical results from five samples documented liquid having flash points less than 140°F, which, according to 40 CFR § 261.21, verifies the characteristic of a hazardous waste for ignitability. Analytical results from one sample indicated xylene at concentration of 700,000 mg/L and ethylbenzene at 180,000 mg/L. .

Abandoned drums are present on the commercial property. Based on the proximity of residential properties, the drums pose a potential direct contact threat to the public. The drums also pose a potential threat of release to the environment.

## **APPENDIX A**

### **FIGURES**





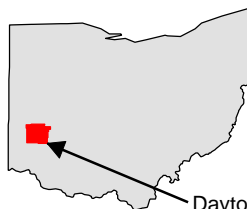
USGS 7.5 MINUTE SOURCE QUAD MAP (OHIO): DAYTON NORTH

Disclaimer: This map is intended for visual orientation use only.  
In no way is this map to be used for precise locational use.

## Legend

● Site Location

0 2,000 4,000 Feet



Dayton,  
Montgomery County,  
Ohio



United States Environmental Protection Agency

**SUPERIOR CLEANING SOLUTIONS  
SITE ASSESSMENT**  
DAYTON, MONTGOMERY COUNTY, OHIO  
TDD No. TO-05-11-06-0016

**FIGURE 1  
SITE LOCATION MAP**








AERIAL SOURCE: BING MAPS HYBRID

Disclaimer: This map is intended for visual orientation use only.  
In no way is this map to be used for precise locational use.

## Legend

 Site Boundary

0 60 120 Feet



Dayton,  
Montgomery County,  
Ohio

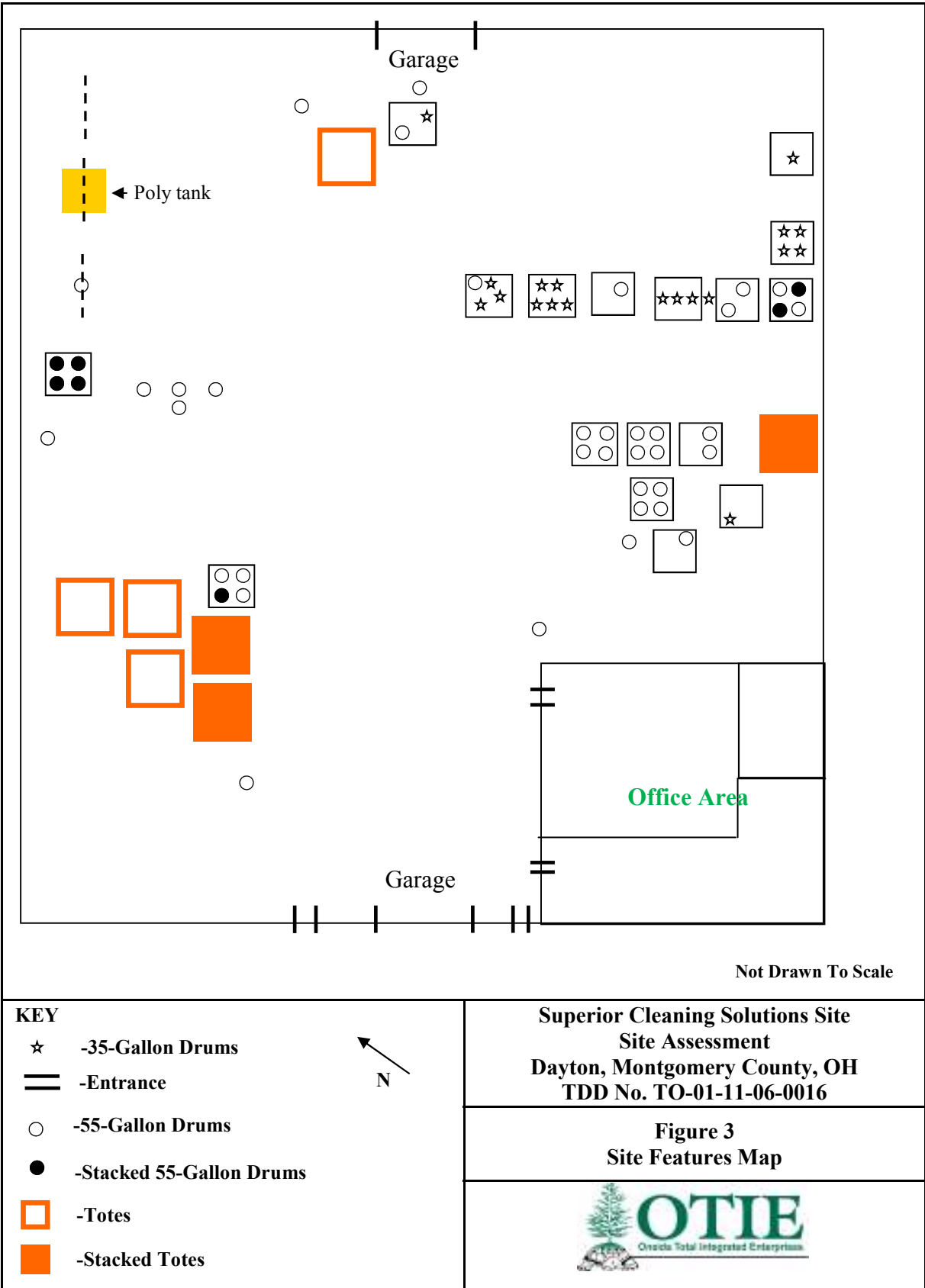


United States Environmental Protection Agency

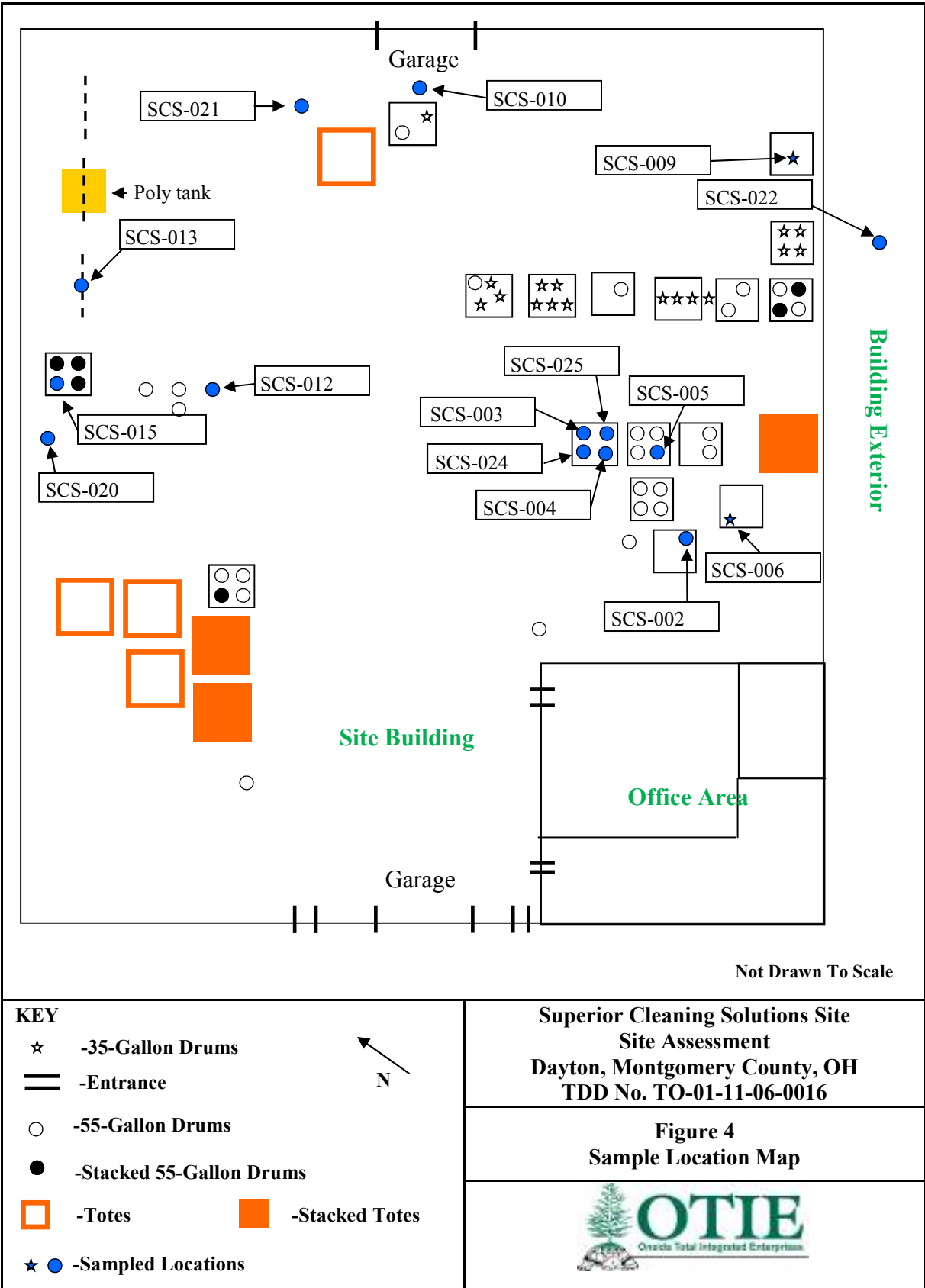
SUPERIOR CLEANING SOLUTIONS  
SITE ASSESSMENT  
DAYTON, MONTGOMERY COUNTY, OHIO  
TDD No. TO-05-11-06-0016

**FIGURE 2**  
**SITE LAYOUT MAP**









## **APPENDIX B**

### **TABLES**

**TABLE 1**  
**SUPERIOR CLEANING SOLUTIONS**  
**SITE ASSESSMENT**  
**SUMMARY OF SAMPLE LOCATIONS**

Sample ID	Sample Location	Sample Matrix	Sample Type	Sample Date	Field pH Screening			
					pH (E150.1)		Flashpoint (SW846 1010)	
					VOC (SW846 8260B)			
SCS-001	Storage Room - South corner	Liquid	Field Sample	8/3/2011	X			
SCS-002	Storage Room - South corner	Liquid	Field Sample	8/3/2011	X	X		
SCS-003	Storage Room - South corner	Liquid	Field Sample	8/3/2011			X	X
SCS-004	Storage Room - South corner	Liquid	Field Sample	8/3/2011			X	
SCS-005	Storage Room - South corner	Liquid	Field Sample	8/3/2011			X	
SCS-006	Storage Room - South corner	Liquid	Field Sample	8/3/2011	X	X		
SCS-007	Storage Room - South corner	Liquid	Field Sample	8/3/2011	X	X		
SCS-008	Storage Room - South corner	Liquid	Field Sample	8/3/2011	X			
SCS-009	Storage Room - East corner	Liquid	Field Sample	8/3/2011	X	X		
SCS-010	Storage Room - Northeast side of room	Liquid	Field Sample	8/3/2011	X	X		
SCS-011	Storage Room - Northeast side of room	Liquid	Field Sample	8/3/2011	X			
SCS-012	Storage Room - Northwest side of room	Liquid	Field Sample	8/3/2011	X	X		
SCS-013	Storage Room - Northwest side of room	Liquid	Field Sample	8/3/2011	X	X		
SCS-014	Storage Room - Northwest side of room	Liquid	Field Sample	8/3/2011	X			
SCS-015	Storage Room - Northwest side of room	Liquid	Field Sample	8/3/2011			X	
SCS-016	Storage Room - Northwest side of room	Liquid	Field Sample	8/3/2011	X			
SCS-017	Storage Room - Northwest side of room	Liquid	Field Sample	8/3/2011	X			
SCS-018	Storage Room - Northwest side of room	Liquid	Field Sample	8/3/2011	X			
SCS-019	Storage Room - Northwest side of room	Liquid	Field Sample	8/3/2011	X			
SCS-020	Storage Room - Northwest side of room	Liquid	Field Sample	8/3/2011	X	X		
SCS-021	Storage Room - North corner	Liquid	Field Sample	8/3/2011	X	X		
SCS-022	Building Exterior - Southeast wall	Liquid	Field Sample	8/3/2011	X	X		
SCS-023	Building Exterior - Southeast wall	Liquid	Field Sample	8/3/2011	X			
SCS-024	Storage Room - South corner	Liquid	Field Sample	8/3/2011			X	
SCS-025	Storage Room - South corner	Liquid	Field Sample	8/3/2011			X	
SCS-100	SCS-020	Liquid	Field Duplicate	8/3/2011		X		
SCS-200	SCS-005	Liquid	Field Duplicate	8/3/2011			X	

**Notes:**

SCS - Superior Cleaning Solutions  
VOC - Volatile Organic Compounds

**TABLE 2**  
**SUPERIOR CLEANING SOLUTIONS**  
**SITE ASSESSMENT**  
**SUMMARY OF FIELD pH SCREENING RESULTS**

Drum ID	Label Information	Container type	Field pH
SCS-001	Hypochlorite Solution	55-gallon poly	12
SCS-002	Scale Away Corrosive	55-gallon poly	1
SCS-003	Xylene Flammable	55-gallon steel	NA
SCS-004	Xylene Flammable	55-gallon steel	NA
SCS-005	Methyl alcohol	55-gallon steel	NA
SCS-006	Fluorosilicic Acid	35-gallon poly	0
SCS-007	Unknown	55-gallon poly	14
SCS-008	Unknown	55-gallon poly	12
SCS-009	Caustic Soda	35-gallon poly	14
SCS-010	Grease Release	55-gallon poly	14
SCS-011	Unknown	250-gallon tote	11
SCS-012	Hydrochloric Acid	55-gallon poly	1
SCS-013	Unknown	55-gallon poly	13
SCS-014	Unknown	55-gallon poly	13
SCS-015	Isopropanol	55-gallon steel	NA
SCS-016	Unknown	55-gallon poly	7
SCS-017	Unknown	55-gallon steel	5
SCS-018	Silicate of Soda	55-gallon poly	12
SCS-019	Sodium Hydroxide	55-gallon poly	NA
SCS-020	Phosphoric Acid	55-gallon poly	1
SCS-021	Sodium Hydroxide	55-gallon poly	13
SCS-022	Sulfonic Acid	55-gallon poly	1
SCS-023	Unknown	55-gallon poly	11
SCS-024	Unknown	55-gallon steel	NA
SCS-025	Unknown	55-gallon steel	NA

**Notes:**

SCS - Superior Cleaning Solutions  
NA - Not Analyzed

**TABLE 3**  
**SUPERIOR CLEANING SOLUTIONS**  
**SITE ASSESSMENT**  
**SUMMARY OF ANALYTICAL RESULTS**

Parameter	Regulatory Limit	Sample Designation					
		SCS-002	SCS-003	SCS-004	SCS-005	SCS-200*	SCS-006
Flashpoint (°F)	< 140 °F	NA	<b>91</b>	<b>108</b>	<b>136</b>	<b>127</b>	NA
Total VOCs (mg/L)							
Ethylbenzene	NRL	NA	180,000	NA	NA	NA	NA
Xylenes, Total	NRL	NA	700,000	NA	NA	NA	NA
pH	Liquid Sample Less than 2.0 or Greater than 12.5	<b>&lt;2.0</b>	8.5	NA	3.9	NA	<b>&lt;2.0</b>
Container type		55-gal poly	55-gal steel	55-gal steel	55-gal steel	55-gal steel	35-gal poly
Label Information		Scale-Away Corrosive	Xylene Flammable	Xylene Flammable	Methyl alcohol	Methyl alcohol	Flouorosilicic Acid Corrosive

Notes:

Bold and shaded - result exceeds the Regulatory Level

< - Less than

> - Greater than

°F - Degrees Fahrenheit

mg/L - milligrams per liter

NA - Not analyzed

ND - Not detected above method detection limit

NRL - No Regulatory Level established

SCS - Superior Cleaning Solutions

\* - SCS-200 is a duplicate sample of SCS-005

**TABLE 3**  
**SUPERIOR CLEANING SOLUTIONS**  
**SITE ASSESSMENT**  
**SUMMARY OF ANALYTICAL RESULTS**

Parameter	Regulatory Limit	Sample Designation					
		SCS-007	SCS-009	SCS-010	SCS-012	SCS-013	SCS-015
Flashpoint (°F)	< 140 °F	NA	NA	NA	NA	NA	<b>81</b>
Total VOCs (mg/L)							
Ethylbenzene	NRL	NA	NA	NA	NA	NA	NA
Xylenes, Total	NRL	NA	NA	NA	NA	NA	NA
pH	Liquid Sample Less than 2.0 or Greater than 12.5	12.3	11.7	<b>&gt;12.4</b>	<b>&lt;2.0</b>	<b>&gt;12.4</b>	NA
Container type		55-gal poly	35-gal poly	55-gal poly	55-gal poly	55-gal poly	55-gal steel
Label Information		None	Caustic Soda	Grease Release	Hydrochloric Acid Corrosive	None	Isopropanol

Notes:

Bold and shaded - result exceeds the Regulatory Level (40 C.F.R. § 261.21 and 261.22)

< - Less than

> - Greater than

°F - Degrees Fahrenheit

mg/L - milligrams per liter

NA - Not analyzed

ND - Not detected above method detection limit

NRL - No Regulatory Level established

SCS - Superior Cleaning Solutions

**TABLE 3**  
**SUPERIOR CLEANING SOLUTIONS**  
**SITE ASSESSMENT**  
**SUMMARY OF ANALYTICAL RESULTS**

Parameter	Regulatory Limit	Sample Designation					
		SCS-020	SCS-100	SCS-021	SCS-022	SCS-024	SCS-025
Flashpoint (°F)	< 140 °F	NA	NA	NA	NA	<b>&lt;32</b>	<b>133</b>
Total VOCs (mg/L)							
Ethylbenzene	NRL	NA	NA	NA	NA	NA	NA
Xylenes, Total	NRL	NA	NA	NA	NA	NA	NA
pH	Liquid Sample Less than 2.0 or Greater than 12.5	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&gt;12.4</b>	<b>&lt;2.0</b>	NA	NA
Container type		55-gal	55-gal	55-gal	55-gal	55-gal	55-gal
		poly	poly	poly	poly	steel	steel
Label Information		Phosphoric Acid	Phosphoric Acid	Sodium Hydroxide	Sulfonic Acid	None	None

Notes:

Bold and shaded - result exceeds the Regulatory Level

< - Less than

> - Greater than

°F - Degrees Fahrenheit

mg/L - milligrams per liter

NA - Not analyzed

ND - Not detected above method detection limit

NRL - No Regulatory Level established

SCS - Superior Cleaning Solutions

\* - SCS-100 is a duplicate sample of SCS-020

**APPENDIX C**  
**PHOTOGRAPHIC LOG**





**Photograph No.:** 1      **Photographer:** Stacey DeLaReintrie      **Orientation:** East  
**TDD Number:** TO-05-11-06-0016      **Contract:** EP-S5-10-10      **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Superior Cleaning Solutions building exterior.



**Photograph No.:** 2      **Photographer:** Stacey DeLaReintrie      **Orientation:** Northeast  
**TDD Number:** TO-05-11-06-0016      **Contract:** EP-S5-10-10      **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Superior Cleaning Solutions building exterior.



**Photograph No.:** 3                      **Photographer:** Stacey DeLaReintrie    **Orientation:** Northeast  
**TDD Number:** TO-05-11-06-0016    **Contract:** EP-S5-10-10                      **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Totes located inside the building.



**Photograph No.:** 4                      **Photographer:** Stacey DeLaReintrie    **Orientation:** South  
**TDD Number:** TO-05-11-06-0016    **Contract:** EP-S5-10-10                      **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Miscellaneous drums and containers located inside the building.



**Photograph No.:** 5                      **Photographer:** Stacey DeLaReintrie   **Orientation:** South  
**TDD Number:** TO-05-11-06-0016   **Contract:** EP-S5-10-10       **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Miscellaneous drums and containers located inside the building.



**Photograph No.:** 6                      **Photographer:** Stacey DeLaReintrie   **Orientation:** South  
**TDD Number:** TO-05-11-06-0016   **Contract:** EP-S5-10-10       **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Miscellaneous drums and containers located inside the building.





**Photograph No.:** 7                      **Photographer:** Stacey DeLaReintrie    **Orientation:** North  
**TDD Number:** TO-05-11-06-0016    **Contract:** EP-S5-10-10                      **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Suspected mixing tank and miscellaneous drums and containers.



**Photograph No.:** 8                      **Photographer:** Stacey DeLaReintrie    **Orientation:** North  
**TDD Number:** TO-05-11-06-0016    **Contract:** EP-S5-10-10                      **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Suspected mixing tank and miscellaneous drums and containers.



**Photograph No.:** 9                      **Photographer:** Stacey DeLaReintrie    **Orientation:** Looking down  
**TDD Number:** TO-05-11-06-0016    **Contract:** EP-S5-10-10                      **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Floor drain located inside the building near the mixing tank.



**Photograph No.:** 10                      **Photographer:** Stacey DeLaReintrie    **Orientation:** West  
**TDD Number:** TO-05-11-06-0016    **Contract:** EP-S5-10-10                      **Date:** August 3, 2011  
**Site Name & Location:** Keowee Street Drum Site, Dayton, OH  
**Subject:** Drums located outside along the south side of the building.

**APPENDIX D**  
**DATA VALIDATION MEMO**



Date: September 7, 2011

To: Steven Renninger, EPA Task  
Monitor

From: Limari Krebs

Copy: N/A

Subject: Data Validation  
Superior Cleaning Solutions, Dayton, OH  
STAT Analysis Corporation – Chicago, IL  
Laboratory Order No.: 11080182

Data validation was performed on the analytical data for 18 Water samples collected by Oneida Total Integrated Enterprises (OTIE) at the Superior Cleaning Solutions site in Dayton, Ohio on August 3, 2011. The samples were analyzed under Sample Delivery Group (SDG) No. 11080182 by STAT Analysis Corporation (STAT) of Chicago, Illinois. Samples were analyzed for target compound list (TCL) volatile organic compounds (VOC) by SW-846 8260B, Toxicity Characteristic Leaching Procedure (TCLP) VOC by SW846-1311/8260B, pH by E150.1, and Flashpoint by SW1010.

Analytical data was evaluated in general accordance with all applicable data validation guidance documents, including the following: the United States (US) Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review EPA-540-R-08-01 (EPA, June 2008), and CLP NFG for Inorganic Superfund Data Review OSWER 9240.1-51 EPA 540-R-10-011 (EPA, January 2010). The analytical methods that were used by the fixed laboratory during this project provide guidance on procedures and method acceptance criteria that, in some areas, differ from that given in the NFGs. Where differences exist between the methods and the NFGs, the data validators followed the acceptance criteria given in the methods. In addition, if the fixed laboratory data package presented laboratory-derived acceptance criteria, then these criteria were used to evaluate the data, unless the criteria were considered inadequate.

SDG No. 11080182 was in the form of summary data packages for each method, which included sample results and summarized quality control results for select QC parameters. The data validation approach applied to this laboratory report represented an abbreviated assessment of the quality of the data set. Since a full data package was not requested by the laboratory, this review was not a complete assessment of all possible quality control parameters. The review, rather, was intended to identify and present those problems and quality control deficiencies that could be readily identified from the summary data package. Raw data including chromatographs were not provided and therefore not reviewed nor were results recalculated from the raw data results. Because of the nature of this approach, some problems and deficiencies may not have been identified; as such, this approach may not support some critical uses and required limits on decision-making uncertainty for the data.

Attachment 1 provides the results pages with hand-written data qualifiers where applicable.

Data evaluation was based on the following parameters:

- Data Completeness
- Chain of Custody (COC) variances
- Holding Times and Preservation
- Method Blank contamination (VOC and pH)
- Surrogate Spike Recoveries (VOC analysis only)
- Laboratory Control Sample recoveries (VOC analysis only)
- Laboratory Duplicate RPD values (pH analysis only)
- Overall Assessment

The following presents the findings of the data evaluation performed.

### **Data Completeness**

The data packages were complete.

### **COC Variances**

Samples SCS-003 and SCS-005 were collected but was not included on the COC. The laboratory communicated this discrepancy with the project manager and was authorized to perform TCLP VOC and flashpoint analysis on the samples, respectively.

### **Holding Times and Preservation**

Samples were received at the laboratory on 8/4/11 on ice. The temperature of the cooler at receipt was 2.9 degrees Celsius (°C) within the  $4.0\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$  limits.

Liquid samples for VOC analysis were not preserved in the field; however, samples were analyzed by the laboratory within 48 hours of sample collection. All other samples were prepared and analyzed within the method specific holding times.

### **Blanks**

Method blanks did not contain target compounds above associated reporting limits (RL); however in the VOC analysis, acetone was detected above the method detection limit (MDL) but below the RL in the method blank samples associated with the VOC and TCLP VOC analysis. Qualifications were unwarranted since this compound was not detected in the associated samples.

### **Surrogate Recoveries**

Surrogate monitoring compounds were recovered within laboratory established QC limits.

### **Laboratory Control Samples**

Laboratory Control Sample (LCS) recoveries were within analyte-specific laboratory derived QC limits with the following exception. In the VOC analysis, the LCS and LCS percent % recovery (%R) for bromomethane was biased low and outside QC limits. Therefore, the result for bromomethane in the associated sample, SCS-003, was qualified as estimated (UJ).



### **General Assessment**

The overall quality of these data packages were acceptable and analytical results can be reported with the associated qualifier, if applicable. Note that sample SCS-003 was analyzed at a 500,000 and 5,000,000 fold dilution for VOCs due to matrix interference. All VOC other than ethylbenzene and xylenes (total) were most likely diluted out.

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August 15, 2011

Oneida Total Integrated Enterprises

1033 N. Mayfair Road

Suite 200

Milwaukee, WI 53226

Telephone: (312) 220-7000

Fax: (312) 220-7004

RE: 2010101, Superior Cleaning Solutions, Dayton, OH

STAT Project No: 11080182

Dear Elisa Walker:

STAT Analysis received 18 samples for the referenced project on 8/4/2011 11:21:00 AM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini

Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

---

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**Client:** Oneida Total Integrated Enterprises  
**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH  
**Lab Order:** 11080182

**Work Order Sample Summary**

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
11080182-001A	SCS-022		8/3/2011 12:30:00 PM	8/4/2011
11080182-002A	SCS-006		8/3/2011 12:35:00 PM	8/4/2011
11080182-003A	SCS-007		8/3/2011 12:40:00 PM	8/4/2011
11080182-004A	SCS-002		8/3/2011 12:45:00 PM	8/4/2011
11080182-005A	SCS-009		8/3/2011 12:50:00 PM	8/4/2011
11080182-006A	SCS-010		8/3/2011 1:00:00 PM	8/4/2011
11080182-007A	SCS-012		8/3/2011 1:05:00 PM	8/4/2011
11080182-008A	SCS-013		8/3/2011 1:10:00 PM	8/4/2011
11080182-009A	SCS-020		8/3/2011 1:15:00 PM	8/4/2011
11080182-010A	SCS-021		8/3/2011 1:20:00 PM	8/4/2011
11080182-011A	SCS-100		8/3/2011 1:25:00 PM	8/4/2011
11080182-012A	SCS-003		8/3/2011 1:30:00 PM	8/4/2011
11080182-013A	SCS-004		8/3/2011 1:35:00 PM	8/4/2011
11080182-014A	SCS-015		8/3/2011 1:40:00 PM	8/4/2011
11080182-015A	SCS-024		8/3/2011 1:45:00 PM	8/4/2011
11080182-016A	SCS-025		8/3/2011 1:45:00 PM	8/4/2011
11080182-017A	SCS-200		8/3/2011 2:00:00 PM	8/4/2011
11080182-018A	SCS-005		8/3/2011	8/4/2011

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**CLIENT:** Oneida Total Integrated Enterprises  
**Project:** 2010101, Superior Cleaning Solutions, Dayton,  
**Lab Order:** 11080182

---

**CASE NARRATIVE**

The VOC water Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyzed 08/05/2011 had recovery of Bromomethane outside of control limits (60%/66% (LCS/LCSD) recovery, QC limits 70-130%).

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Date Reported: August 15, 2011

Date Printed: August 15, 2011

**Client:** Oneida Total Integrated Enterprises**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH**Lab Order:** 11080182**Lab ID:** 11080182-001**Collection Date:** 8/3/2011 12:30:00 PM**Client Sample ID** SCS-022**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1			Prep Date: 8/4/2011	Analyst: MNG	
pH	<2.0		*	pH units 1	8/4/2011	

**Lab ID:** 11080182-002**Collection Date:** 8/3/2011 12:35:00 PM**Client Sample ID** SCS-006**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1			Prep Date: 8/4/2011	Analyst: MNG	
pH	<2.0		*	pH units 1	8/4/2011	

**Lab ID:** 11080182-003**Collection Date:** 8/3/2011 12:40:00 PM**Client Sample ID** SCS-007**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1			Prep Date: 8/4/2011	Analyst: MNG	
pH	12.3		*	pH units 1	8/4/2011	

**Lab ID:** 11080182-004**Collection Date:** 8/3/2011 12:45:00 PM**Client Sample ID** SCS-002**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1			Prep Date: 8/4/2011	Analyst: MNG	
pH	<2.0		*	pH units 1	8/4/2011	

**Lab ID:** 11080182-005**Collection Date:** 8/3/2011 12:50:00 PM**Client Sample ID** SCS-009**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1			Prep Date: 8/4/2011	Analyst: MNG	
pH	11.7		*	pH units 1	8/4/2011	

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

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Date Reported: August 15, 2011

Date Printed: August 15, 2011

**Client:** Oneida Total Integrated Enterprises**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH**Lab Order:** 11080182**Lab ID:** 11080182-006**Collection Date:** 8/3/2011 1:00:00 PM**Client Sample ID** SCS-010**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1					Prep Date: 8/4/2011 Analyst: MNG
pH	>12.4		*	pH units	1	8/4/2011

**Lab ID:** 11080182-007**Collection Date:** 8/3/2011 1:05:00 PM**Client Sample ID** SCS-012**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1					Prep Date: 8/4/2011 Analyst: MNG
pH	<2.0		*	pH units	1	8/4/2011

**Lab ID:** 11080182-008**Collection Date:** 8/3/2011 1:10:00 PM**Client Sample ID** SCS-013**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1					Prep Date: 8/4/2011 Analyst: MNG
pH	>12.4		*	pH units	1	8/4/2011

**Lab ID:** 11080182-009**Collection Date:** 8/3/2011 1:15:00 PM**Client Sample ID** SCS-020**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1					Prep Date: 8/4/2011 Analyst: MNG
pH	<2.0		*	pH units	1	8/4/2011

**Lab ID:** 11080182-010**Collection Date:** 8/3/2011 1:20:00 PM**Client Sample ID** SCS-021**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
pH	E150.1					Prep Date: 8/4/2011 Analyst: MNG
pH	>12.4		*	pH units	1	8/4/2011

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

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Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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pH	E150.1			Prep Date: 8/4/2011	Analyst: MNG
pH	<2.0	*		pH units 1	8/4/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

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Date Reported: August 15, 2011

Date Printed: August 15, 2011

Client: Oneida Total Integrated Enterprises

Project: 2010101, Superior Cleaning Solutions, Dayton, OH

Lab Order: 11080182

Lab ID: 11080182-012

Collection Date: 8/3/2011 1:30:00 PM

Client Sample ID SCS-003

Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>	Prep Date:	Analyst: ART
---	-------------------------------	------------	--------------

Benzene	ND	2500	mg/L	500000	8/5/2011
2-Butanone	ND	10000	mg/L	500000	8/5/2011
Carbon tetrachloride	ND	2500	mg/L	500000	8/5/2011
Chlorobenzene	ND	2500	mg/L	500000	8/5/2011
Chloroform	ND	2500	mg/L	500000	8/5/2011
1,2-Dichloroethane	ND	2500	mg/L	500000	8/5/2011
1,1-Dichloroethene	ND	2500	mg/L	500000	8/5/2011
Tetrachloroethene	ND	2500	mg/L	500000	8/5/2011
Trichloroethene	ND	2500	mg/L	500000	8/5/2011
Vinyl chloride	ND	2500	mg/L	500000	8/5/2011

<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>	Prep Date:	Analyst: ART
--	--------------------------	------------	--------------

Acetone	ND	10000	mg/L	500000	8/5/2011
Benzene	ND	2500	mg/L	500000	8/5/2011
Bromodichloromethane	ND	2500	mg/L	500000	8/5/2011
Bromoform	ND	2500	mg/L	500000	8/5/2011
Bromomethane	ND	5000	mg/L	500000	8/5/2011
2-Butanone	ND	10000	mg/L	500000	8/5/2011
Carbon disulfide	ND	5000	mg/L	500000	8/5/2011
Carbon tetrachloride	ND	2500	mg/L	500000	8/5/2011
Chlorobenzene	ND	2500	mg/L	500000	8/5/2011
Chloroethane	ND	5000	mg/L	500000	8/5/2011
Chloroform	ND	2500	mg/L	500000	8/5/2011
Chloromethane	ND	5000	mg/L	500000	8/5/2011
Dibromochloromethane	ND	2500	mg/L	500000	8/5/2011
1,1-Dichloroethane	ND	2500	mg/L	500000	8/5/2011
1,2-Dichloroethane	ND	2500	mg/L	500000	8/5/2011
1,1-Dichloroethene	ND	2500	mg/L	500000	8/5/2011
cis-1,2-Dichloroethene	ND	2500	mg/L	500000	8/5/2011
trans-1,2-Dichloroethene	ND	2500	mg/L	500000	8/5/2011
1,2-Dichloropropane	ND	2500	mg/L	500000	8/5/2011
cis-1,3-Dichloropropene	ND	500	mg/L	500000	8/5/2011
trans-1,3-Dichloropropene	ND	500	mg/L	500000	8/5/2011
Ethylbenzene	180000	25000	mg/L	5000000	8/5/2011
2-Hexanone	ND	10000	mg/L	500000	8/5/2011
4-Methyl-2-pentanone	ND	10000	mg/L	500000	8/5/2011
Methylene chloride	ND	2500	mg/L	500000	8/5/2011
Methyl tert-butyl ether	ND	2500	mg/L	500000	8/5/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



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Date Reported: August 15, 2011

Date Printed: August 15, 2011

Client: Oneida Total Integrated Enterprises

Project: 2010101, Superior Cleaning Solutions, Dayton, OH

Lab Order: 11080182

**Volatile Organic Compounds by GC/MS****SW8260B (SW5030B)**

Prep Date:

Analyst: ART

Styrene	ND	2500	mg/L	500000	8/5/2011
1,1,2,2-Tetrachloroethane	ND	2500	mg/L	500000	8/5/2011
Tetrachloroethene	ND	2500	mg/L	500000	8/5/2011
Toluene	ND	2500	mg/L	500000	8/5/2011
1,1,1-Trichloroethane	ND	2500	mg/L	500000	8/5/2011
1,1,2-Trichloroethane	ND	2500	mg/L	500000	8/5/2011
Trichloroethene	ND	2500	mg/L	500000	8/5/2011
Vinyl chloride	ND	1000	mg/L	500000	8/5/2011
Xylenes, Total	700000	75000	mg/L	5000000	8/5/2011

**Flash Point (Closed Cup)****SW1010**

Prep Date: 8/10/2011

Analyst: RW

Flashpoint	91	°F	1	8/10/2011
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**pH****E150.1**

Prep Date: 8/4/2011

Analyst: MNG

pH	8.5	*	pH units	1	8/4/2011
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Lab ID: 11080182-013

Collection Date: 8/3/2011 1:35:00 PM

Client Sample ID SCS-004

Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Flash Point (Closed Cup)****SW1010**

Prep Date: 8/10/2011

Analyst: RW

Flashpoint	108	°F	1	8/10/2011
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Lab ID: 11080182-014

Collection Date: 8/3/2011 1:40:00 PM

Client Sample ID SCS-015

Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Flash Point (Closed Cup)****SW1010**

Prep Date: 8/10/2011

Analyst: RW

Flashpoint	81	°F	1	8/10/2011
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Lab ID: 11080182-015

Collection Date: 8/3/2011 1:45:00 PM

Client Sample ID SCS-024

Matrix: Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Flash Point (Closed Cup)****SW1010**

Prep Date: 8/10/2011

Analyst: RW

Flashpoint	<32	°F	1	8/10/2011
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**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: August 15, 2011

Date Printed: August 15, 2011

**Client:** Oneida Total Integrated Enterprises**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH**Lab Order:** 11080182**Lab ID:** 11080182-016**Collection Date:** 8/3/2011 1:45:00 PM**Client Sample ID** SCS-025**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Flash Point (Closed Cup)****SW1010**Prep Date: **8/10/2011** Analyst: **RW**

Flashpoint

133

°F

1

8/10/2011

**Lab ID:** 11080182-017**Collection Date:** 8/3/2011 2:00:00 PM**Client Sample ID** SCS-200**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Flash Point (Closed Cup)****SW1010**Prep Date: **8/10/2011** Analyst: **RW**

Flashpoint

127

°F

1

8/10/2011

**Lab ID:** 11080182-018**Collection Date:** 8/3/2011**Client Sample ID** SCS-005**Matrix:** Liquid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Flash Point (Closed Cup)****SW1010**Prep Date: **8/15/2011** Analyst: **RW**

Flashpoint

136

°F

1

8/15/2011

**pH****E150.1**Prep Date: **8/4/2011** Analyst: **MNG**

pH

3.9

\*

pH units

1

8/4/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

[illegible]

**Sample Receipt Checklist**

Client Name OTIE

Date and Time Received: 8/4/2011 11:21:00 AM

Work Order Number 11080182

Received by: CDF

Checklist completed by:

*[Signature]* 8/4/11  
Signature Date

Reviewed by:

*KL* 8/8/11  
Initials Date

Matrix:

Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Samples in proper container/bottle?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature 2.9 °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: Sample SCS-005 was received but  
not listed on the C.O.C.

Client / Person contacted:

Elisa

Date contacted:

8/8/11

Contacted by:

KL Email

Response:

## Catia Giannini

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**From:** Stacey DeLaReintrie [SDeLaReintrie@otie.com]  
**Sent:** Friday, August 12, 2011 9:36 AM  
**To:** Catia Giannini  
**Subject:** RE: 2010101, Superior Cleaning Solutions, Dayton, OH 11080182  
Hi Catia,

I need to request two additional analyses for this chain of custody.

For Sample SCS-003, please analyze for TCLP VOCs  
For Sample SCS-005, please analyze for flashpoint.

Please turn these around as quickly as possible.

Thank you,  
**Stacey DeLaReintrie**  
**Oneida Total Integrated Enterprises (OTIE)**  
678.255.7764 cell  
[www.otie.com](http://www.otie.com)

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**From:** Catia Giannini [mailto:CGiannini@STATAnalysis.com]  
**Sent:** Thursday, August 11, 2011 4:05 PM  
**To:** Stacey DeLaReintrie  
**Subject:** FW: 2010101, Superior Cleaning Solutions, Dayton, OH 11080182

-----Original Message-----

**From:** Catia Giannini  
**Sent:** Thursday, August 11, 2011 3:01 PM  
**To:** 'fdelareintrie@otie.com'  
**Cc:** 'ewalker@otie.com'  
**Subject:** 2010101, Superior Cleaning Solutions, Dayton, OH 11080182

Attached are the report and invoice for project 2010101, Superior Cleaning Solutions, Dayton, OH received 8/4/11.

Catia Giannini  
STAT Analysis Corporation  
2242 W. Harrison, Suite 200  
Chicago, IL 60612  
(312)733-0551

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<<11080182(OTIE).pdf>> <<11080182(OTIE).xls>> <<11080182(OTIE)Invoice.pdf>>

# STAT Analysis Corporation

**CLIENT:** Oneida Total Integrated Enterprises  
**Work Order:** 11080182  
**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH  
**Test No:** SW8260B **Matrix:** W

## QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	BR4FBZ	BZMED8	DBFM	DCA12D4				
VBLK080511-3	94.0	101	110	96.8				
VLCS080511-3	98.5	103	109	102				
VLCS080511-3	96.3	102	108	100				
ZBLK080411	91.3	100	108	98.4				
11080182-012A:5E6	97.2	102	115	95.4				
11080182-012A:5E9	91.7	98.6	107	106				

Acronym	Surrogate	QC Limits
BR4FBZ	= 4-Bromofluorobenzene	86-115
BZMED8	= Toluene-d8	88-110
DBFM	= Dibromofluoromethane	86-118
DCA12D4	= 1,2-Dichloroethane-d4	80-120

\* Surrogate recovery outside acceptance limits

**CLIENT:** Oneida Total Integrated Enterprises  
**Work Order:** 11080182  
**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R73815

Sample ID: <b>ZBLK080411</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_TCLP+</b>	Units: <b>mg/L</b>	Prep Date:	Run ID: <b>VOA-3_110805A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R73815</b>	TestNo: <b>SW1311/8260</b>	Analysis Date: <b>8/5/2011</b>	SeqNo: <b>1977138</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Acetone	0.0775	0.20									J
Benzene	ND	0.050									
Bromodichloromethane	ND	0.050									
Bromoform	ND	0.050									
Bromomethane	ND	0.10									
2-Butanone	ND	0.20									
Carbon disulfide	ND	0.10									
Carbon tetrachloride	ND	0.050									
Chlorobenzene	ND	0.050									
Dibromochloromethane	ND	0.050									
Chloroethane	ND	0.10									
Chloroform	ND	0.050									
Chloromethane	ND	0.10									
1,1-Dichloroethane	ND	0.050									
1,2-Dichloroethane	ND	0.050									
1,1-Dichloroethene	ND	0.050									
cis-1,2-Dichloroethene	ND	0.050									
trans-1,2-Dichloroethene	ND	0.050									
1,2-Dichloropropane	ND	0.050									
cis-1,3-Dichloropropene	ND	0.010									
trans-1,3-Dichloropropene	ND	0.010									
Ethylbenzene	ND	0.050									
2-Hexanone	ND	0.20									
4-Methyl-2-pentanone	ND	0.20									
Methylene chloride	ND	0.050									
Methyl tert-butyl ether	ND	0.050									
Styrene	ND	0.050									
1,1,2,2-Tetrachloroethane	ND	0.050									
Tetrachloroethene	ND	0.050									
Toluene	ND	0.050									

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Oneida Total Integrated Enterprises  
**Work Order:** 11080182  
**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R73815

Sample ID: <b>ZBLK080411</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_TCLP+</b>	Units: <b>mg/L</b>	Prep Date:	Run ID: <b>VOA-3_110805A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R73815</b>	TestNo: <b>SW1311/8260</b>		Analysis Date: <b>8/5/2011</b>	SeqNo: <b>1977138</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	ND	0.050
1,1,2-Trichloroethane	ND	0.050
Trichloroethene	ND	0.050
Vinyl chloride	ND	0.020
Xylenes, Total	ND	0.15

Sample ID: <b>VBLK080511-3</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_W+</b>	Units: <b>mg/L</b>	Prep Date:	Run ID: <b>VOA-3_110805A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R73815</b>	TestNo: <b>SW8260B</b>		Analysis Date: <b>8/5/2011</b>	SeqNo: <b>1977122</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	ND	0.0050
1,1,2,2-Tetrachloroethane	ND	0.0050
1,1,2-Trichloroethane	ND	0.0050
1,1-Dichloroethane	ND	0.0050
1,1-Dichloroethene	ND	0.0050
1,2-Dichloroethane	ND	0.0050
1,2-Dichloropropane	ND	0.0050
2-Butanone	ND	0.020
2-Hexanone	ND	0.020
4-Methyl-2-pentanone	ND	0.020
Acetone	0.0058	0.020
Benzene	ND	0.0050
Bromodichloromethane	ND	0.0050
Bromoform	ND	0.0050
Bromomethane	ND	0.010
Carbon disulfide	ND	0.010
Carbon tetrachloride	ND	0.0050
Chlorobenzene	ND	0.0050
Chloroethane	ND	0.010
Chloroform	ND	0.0050
Chloromethane	ND	0.010

J

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range



**CLIENT:** Oneida Total Integrated Enterprises  
**Work Order:** 11080182  
**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R73815

Sample ID: <b>VBLK080511-3</b>	SampType: <b>MBLK</b>	TestCode: <b>VOC_W+</b>	Units: <b>mg/L</b>	Prep Date:	Run ID: <b>VOA-3_110805A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R73815</b>	TestNo: <b>SW8260B</b>	Analysis Date: <b>8/5/2011</b>	SeqNo: <b>1977122</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

cis-1,2-Dichloroethene	ND	0.0050
cis-1,3-Dichloropropene	ND	0.0010
Dibromochloromethane	ND	0.0050
Ethylbenzene	ND	0.0050
Methyl tert-butyl ether	ND	0.0050
Methylene chloride	ND	0.0050
Styrene	ND	0.0050
Tetrachloroethene	ND	0.0050
Toluene	ND	0.0050
trans-1,2-Dichloroethene	ND	0.0050
trans-1,3-Dichloropropene	ND	0.0010
Trichloroethene	ND	0.0050
Vinyl chloride	ND	0.0020
Xylenes, Total	ND	0.015

Sample ID: <b>VLCS080511-3</b>		SampType: <b>LCS</b>		TestCode: <b>VOC_W+</b>		Units: <b>mg/L</b>		Prep Date:		Run ID: <b>VOA-3_110805A</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>R73815</b>		TestNo: <b>SW8260B</b>				Analysis Date: <b>8/5/2011</b>		SeqNo: <b>1977123</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

1,1,1-Trichloroethane	0.0515	0.0050	0.05	0	103	70	130	0	0
1,1,2,2-Tetrachloroethane	0.04903	0.0050	0.05	0	98.1	70	130	0	0
1,1,2-Trichloroethane	0.04982	0.0050	0.05	0	99.6	70	130	0	0
1,1-Dichloroethane	0.05095	0.0050	0.05	0	102	70	130	0	0
1,1-Dichloroethene	0.05434	0.0050	0.05	0	109	70	130	0	0
1,2-Dichloroethane	0.04972	0.0050	0.05	0	99.4	70	130	0	0
1,2-Dichloropropane	0.04848	0.0050	0.05	0	97	70	130	0	0
2-Butanone	0.1026	0.020	0.1	0	103	70	130	0	0
2-Hexanone	0.09904	0.020	0.1	0	99	70	130	0	0
4-Methyl-2-pentanone	0.09839	0.020	0.1	0	98.4	70	130	0	0
Acetone	0.1137	0.020	0.1	0.0058	108	50	150	0	0
Benzene	0.04955	0.0050	0.05	0	99.1	70	130	0	0

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Oneida Total Integrated Enterprises  
**Work Order:** 11080182  
**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R73815

Sample ID: <b>VLCS080511-3</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_W+</b>	Units: <b>mg/L</b>	Prep Date:	Run ID: <b>VOA-3_110805A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R73815</b>	TestNo: <b>SW8260B</b>	Analysis Date: <b>8/5/2011</b>	SeqNo: <b>1977123</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Bromodichloromethane	0.05121	0.0050	0.05	0	102	70	130	0	0		
Bromoform	0.04347	0.0050	0.05	0	86.9	70	130	0	0		
Bromomethane	0.03002	0.010	0.05	0	60	70	130	0	0		S
Carbon disulfide	0.1282	0.010	0.1	0	128	70	130	0	0		
Carbon tetrachloride	0.05011	0.0050	0.05	0	100	70	130	0	0		
Chlorobenzene	0.04801	0.0050	0.05	0	96	70	130	0	0		
Chloroethane	0.05649	0.010	0.05	0	113	70	130	0	0		
Chloroform	0.05243	0.0050	0.05	0	105	70	130	0	0		
Chloromethane	0.04413	0.010	0.05	0	88.3	70	130	0	0		
cis-1,2-Dichloroethene	0.0519	0.0050	0.05	0	104	70	130	0	0		
cis-1,3-Dichloropropene	0.052	0.0010	0.05	0	104	70	130	0	0		
Dibromochloromethane	0.04961	0.0050	0.05	0	99.2	70	130	0	0		
Ethylbenzene	0.04867	0.0050	0.05	0	97.3	70	130	0	0		
Methyl tert-butyl ether	0.05552	0.0050	0.05	0	111	50	150	0	0		
Methylene chloride	0.05554	0.0050	0.05	0	111	70	130	0	0		
Styrene	0.04925	0.0050	0.05	0	98.5	70	130	0	0		
Tetrachloroethene	0.04672	0.0050	0.05	0	93.4	70	130	0	0		
Toluene	0.04941	0.0050	0.05	0	98.8	70	130	0	0		
trans-1,2-Dichloroethene	0.05362	0.0050	0.05	0	107	70	130	0	0		
trans-1,3-Dichloropropene	0.05668	0.0010	0.05	0	113	70	130	0	0		
Trichloroethene	0.05018	0.0050	0.05	0	100	70	130	0	0		
Vinyl chloride	0.05466	0.0020	0.05	0	109	70	130	0	0		
Xylenes, Total	0.1458	0.015	0.15	0	97.2	70	130	0	0		

Sample ID: <b>VLCS080511-3</b>	SampType: <b>LCS</b>	TestCode: <b>VOC_W+</b>	Units: <b>mg/L</b>	Prep Date:	Run ID: <b>VOA-3_110805A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R73815</b>	TestNo: <b>SW8260B</b>		Analysis Date: <b>8/5/2011</b>	SeqNo: <b>1977124</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,1-Trichloroethane	0.05077	0.0050	0.05	0	102	70	130	0.0515	1.43	20	
1,1,2,2-Tetrachloroethane	0.04971	0.0050	0.05	0	99.4	70	130	0.04903	1.38	20	
1,1,2-Trichloroethane	0.05027	0.0050	0.05	0	101	70	130	0.04982	0.899	20	

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Oneida Total Integrated Enterprises  
**Work Order:** 11080182  
**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R73815**

Sample ID: <b>VLCS080511-3</b>	SampType: <b>LCSD</b>	TestCode: <b>VOC_W+</b>	Units: <b>mg/L</b>	Prep Date:				Run ID: <b>VOA-3_110805A</b>			
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R73815</b>	TestNo: <b>SW8260B</b>		Analysis Date: <b>8/5/2011</b>				SeqNo: <b>1977124</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethane	0.05131	0.0050	0.05	0	103	70	130	0.05095	0.704	20	S
1,1-Dichloroethene	0.05522	0.0050	0.05	0	110	70	130	0.05434	1.61	20	
1,2-Dichloroethane	0.05083	0.0050	0.05	0	102	70	130	0.04972	2.21	20	
1,2-Dichloropropane	0.04874	0.0050	0.05	0	97.5	70	130	0.04848	0.535	20	
2-Butanone	0.115	0.020	0.1	0	115	70	130	0.1026	11.4	20	
2-Hexanone	0.103	0.020	0.1	0	103	70	130	0.09904	3.87	20	
4-Methyl-2-pentanone	0.1003	0.020	0.1	0	100	70	130	0.09839	1.89	20	
Acetone	0.1224	0.020	0.1	0.0058	117	50	150	0.1137	7.38	20	
Benzene	0.04997	0.0050	0.05	0	99.9	70	130	0.04955	0.844	20	
Bromodichloromethane	0.05067	0.0050	0.05	0	101	70	130	0.05121	1.06	20	
Bromoform	0.04487	0.0050	0.05	0	89.7	70	130	0.04347	3.17	20	
Bromomethane	0.03299	0.010	0.05	0	66	70	130	0.03002	9.43	20	
Carbon disulfide	0.1262	0.010	0.1	0	126	70	130	0.1282	1.56	20	
Carbon tetrachloride	0.04892	0.0050	0.05	0	97.8	70	130	0.05011	2.40	20	
Chlorobenzene	0.04714	0.0050	0.05	0	94.3	70	130	0.04801	1.83	20	
Chloroethane	0.05713	0.010	0.05	0	114	70	130	0.05649	1.13	20	
Chloroform	0.0516	0.0050	0.05	0	103	70	130	0.05243	1.60	20	
Chloromethane	0.04601	0.010	0.05	0	92	70	130	0.04413	4.17	20	
cis-1,2-Dichloroethene	0.04956	0.0050	0.05	0	99.1	70	130	0.0519	4.61	20	
cis-1,3-Dichloropropene	0.05256	0.0010	0.05	0	105	70	130	0.052	1.07	20	
Dibromochloromethane	0.04886	0.0050	0.05	0	97.7	70	130	0.04961	1.52	20	
Ethylbenzene	0.04811	0.0050	0.05	0	96.2	70	130	0.04867	1.16	20	
Methyl tert-butyl ether	0.05688	0.0050	0.05	0	114	50	150	0.05552	2.42	20	
Methylene chloride	0.05456	0.0050	0.05	0	109	70	130	0.05554	1.78	20	
Styrene	0.04872	0.0050	0.05	0	97.4	70	130	0.04925	1.08	20	
Tetrachloroethene	0.04641	0.0050	0.05	0	92.8	70	130	0.04672	0.666	20	
Toluene	0.05001	0.0050	0.05	0	100	70	130	0.04941	1.21	20	
trans-1,2-Dichloroethene	0.05341	0.0050	0.05	0	107	70	130	0.05362	0.392	20	
trans-1,3-Dichloropropene	0.05635	0.0010	0.05	0	113	70	130	0.05668	0.584	20	
Trichloroethene	0.04986	0.0050	0.05	0	99.7	70	130	0.05018	0.640	20	
Vinyl chloride	0.05485	0.0020	0.05	0	110	70	130	0.05466	0.347	20	

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Oneida Total Integrated Enterprises

**Work Order:** 11080182

**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R73815

Sample ID: <b>VLCS0080511-3</b>	SampType: <b>LCSD</b>	TestCode: <b>VOC_W+</b>	Units: <b>mg/L</b>	Prep Date:	Run ID: <b>VOA-3_110805A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R73815</b>	TestNo: <b>SW8260B</b>	Analysis Date: <b>8/5/2011</b>	SeqNo: <b>1977124</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Xylenes, Total	0.1433	0.015	0.15	0	95.5	70	130	0.1458	1.68	20	

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Oneida Total Integrated Enterprises  
**Work Order:** 11080182  
**Project:** 2010101, Superior Cleaning Solutions, Dayton, OH

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R73777

Sample ID: 11080159-041A DUP		SampType: DUP		TestCode: PH_W		Units: pH units		Prep Date: 8/4/2011		Run ID: PH_110804A	
Client ID: ZZZZZ		Batch ID: R73777		TestNo: E150.1				Analysis Date: 8/4/2011		SeqNo: 1976041	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

pH	6.43	0	0	0	0	0	0	6.42	0.156	10	*
----	------	---	---	---	---	---	---	------	-------	----	---

Sample ID: <b>11080181-002B DUP</b>	SampType: <b>DUP</b>	TestCode: <b>PH_W</b>	Units: <b>pH units</b>	Prep Date: <b>8/4/2011</b>	Run ID: <b>PH_110804A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>R73777</b>	TestNo: <b>E150.1</b>		Analysis Date: <b>8/4/2011</b>	SeqNo: <b>1976044</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

pH	6.67	0	0	0	0	0	0	6.65	0.300	10	*
----	------	---	---	---	---	---	---	------	-------	----	---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**APPENDIX E**  
**LOGBOOK NOTES**

## CONTENTS

PAGE

## REFERENCE

DATE \_\_\_\_\_

Location

Date \_\_\_\_\_

Date 2 AUG -11 3

Project / Client

1315 - Arrive at site. Meet  
w/ Steve Kenninger. Discuss  
site characteristics.  
1400 - Arrive at the site.  
It is bordered to the  
west by Kenree St. and  
a city park (former public housing).  
Bordered to the north by  
a used car dealer "Deals  
for wheels". To the south  
by an unmarked commercial  
industrial property which  
appears to be abandoned  
but side is labeled "Boeckman  
Meats". And to the east  
by an alley and residential  
properties.  
1600 - START and EPA OFFICE

2-AUG-11

*[Signature]*

3-AUG-11

0800 - Arrive @ Site. Open doors to site building. Calibrate Multi-Pac. \_\_\_\_\_

0830 - Health and Safety Meeting. Label drums 1-25 for sampling. \_\_\_\_\_

0900 - Prepare for Sampling Activities. \_\_\_\_\_

1000 - GPS Coordinates for site  
N 39° 46' 50.2"  
W 084° 11' 12.9" \_\_\_\_\_

1100 - Collect pH readings from the drums identified for sampling. Drum label information and pH readings are listed on the following page. \_\_\_\_\_

NOTE - JART was unable to collect VOC readings due to a malfunctioning Multi-Pac. Drums identified for flashpoint analysis were collected for laboratory analysis. Select drums for pH were also selected for laboratory analysis. \_\_\_\_\_

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	Label	Drum Type	Analysis
SCS-001	Hypochlorite soln.	55 gal poly	pH=12
* SCS-002	Scale-Away Corrosive	"	pH=1
SCS-003	Xylene Flam. Liquid	55 gal steel	Flashpoint
SCS-004	Xylene Flam. Liquid	"	"
SCS-005	Methyl alcohol	"	"
SCS-006	Fluorosilic acid Corrosive	35 gal	pH=0
SCS-007	Unknown	55 gal	Both pH=14
SCS-008	Unknown	"	" pH=12
SCS-009	Caustic Soda	35-gal	pH=14
SCS-010	Grease Release	55-gal poly	pH=14

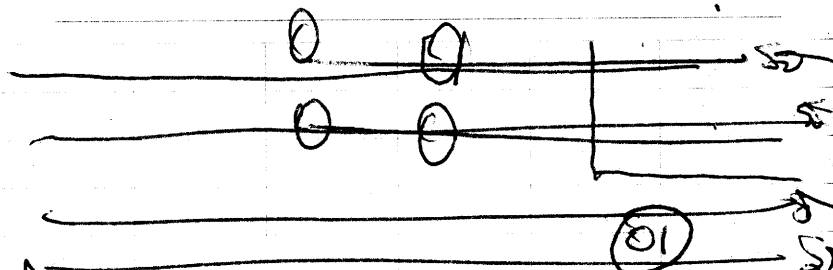


Location \_\_\_\_\_

Date

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Project / Client \_\_\_\_\_



Drum Inventory  
Count the number of inside  
drums.

Drum (55 gal)  
Drums ( $> 35$  gal) = 78 total  
empty = 31

Contents present = 47  
Drums/containers ( $\leq 35$  gal)  
empty = 95  
contents present = 72  
total = 167

Totes / tanks = 11  
empty = 10  
contents = 1

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*[Signature]*

Location \_\_\_\_\_

Date

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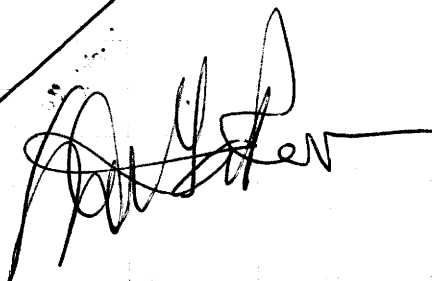
Project / Client \_\_\_\_\_

ID	Label	Container	Analysis
SCS-011	Unknown	tote	pH
SCS-012	HCl Acid corrosive	55-gal Poly	pH (11) pH (11)
SCS-013	Unknown	"	pH (15)
SCS-014	Unknown	"	pH (15)
SCS-015	Isopropanol	55-gal Steel	Fish (15)
SCS-016	Unknown	55-gal Poly	pH (17)
SCS-017	Unknown	55-gal Steel	Fish (15) pH (15)
SCS-018	Licite of rock	55-gal Poly	pH (12)
SCS-019	Sodium Hydroxide	"	pH (15)
SCS-020	Phosphoric Acid	"	pH (15)
SCS-021	Sodium Hydroxide	55-gal Poly	pH (15)

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SCS-022 (outside)	Sulfonic Acid	SS-gel poly	pH=1 <del>#10</del>
SCS-023 (outside)	Unknown	SS-gel poly	pH=11
SCS-024	Unknown	SS-gel Steel	FP
SCS-025	Unknown	SS-gel Steel	FP

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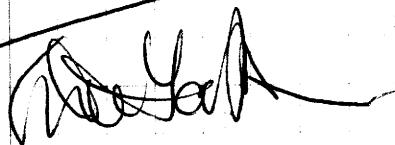
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## Drums to Sample

✓ SCS-002	pH	✓ SCS-003	FP
✓ SCS-006	pH	✓ SCS-004	FP
✓ SCS-007	pH	✓ SCS-005	FP
✓ SCS-009	pH	✓ SCS-015	FP
✓ SCS-010	pH	✓ SCS-024	FP
✓ SCS-12	pH	✓ SCS-025	FP
✓ SCS-20	pH		
✓ SCS-21	pH		
✓ SCS-13	pH		
✓ SCS-22	pH		

Full VOC Scan on SCS-003

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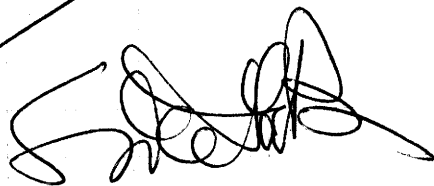


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## Photo Log

- Photo #1 outside looking East  
 Photo #2 outside looking NE  
 #3 - inside totes looking NE  
 #4 - 1kg South  
 #5 - 1kg South  
 #6 - 1kg South  
 #7 - 1kg North  
 #8 - 1kg North  
 #9 - 1kg North  
 #10 - 1kg down  
 #11 - 1kg down  
 #12 - 1kg west-outside  
 #13 - 1kg west-outside

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1224 Inventory of drums outside of building conducted.

Total of 88 drums.

- 1230 - Collect sample SCS-002  
 for PH analysis  
 1235 - Collect sample SCS-006  
 for PH analysis  
 1240 - Collect sample SCS-007  
 for PH analysis  
 1245 - Collect sample SCS-002  
 for PH analysis  
 1250 - Collect sample SCS-009  
 for PH analysis  
 1300 - Collect sample SCS-010  
 for PH analysis  
 1305 - Collect sample SCS-012  
 for PH analysis  
 1310 - Collect sample SCS-013  
 for PH analysis  
 1315 - Collect sample SCS-020  
 for PH analysis  
 1320 - Collect sample SCS-021  
 for PH analysis  
 1325 - Collect sample SCS-100 for

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pH Analysis, Duplicate Sample  
for SCS-020

1330 - Collect Sample SCS-003

for pH, VOCs, and Flashpoint

1335 - Collect Sample SCS-004

for flashpoint

1340 - Collect Sample SCS-005

for flashpoint

1345 - Collect Sample SCS-15

for flashpoint

1350 - Collect Sample SCS-24

for flashpoint

1400 - Collect Sample SCS-25

for flashpoint

1410 - Collect duplicate

Sample SCS-200 for flash-

point, duplicate of SCS-005

1500 - Create site sketch

identifying drums sampled

and double-check drum

inventory - contents and

empty drums also recorded.

1600 - START OFFSITE.

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## DRUM INVENTORY TOTALS

Outside - 88 55-gallon drums  
w/contents

Inside - 78 55-gallon drums  
31 empty

167 47 w/contents  
<35 gallon containers

11 95 empty  
72 w/contents

Tanks/totes  
10 empty

1 w/contents

344 total totes,  
drums, and  
containers

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